

**TOGGLE OVER-CENTER MECHANISM FOR SHIFTING
THE REVERSING MECHANISM OF AN OSCILLATING
ROTOR TYPE SPRINKLER**

ABSTRACT OF THE DISCLOSURE

A Pelton type turbine is mounted in a riser of a pop-up sprinkler for rotation about a horizontal axis and drives a bevel pinion gear reversing mechanism through a gear train reduction. One end of a yoke is coupled to a clutch and the other end is moved vertically by an over-center mechanism through a link arm to shift the direction of rotation of a nozzle turret connected to the upper end of a drive shaft. The over-center mechanism includes a pair of levers held together by a single coil spring with trunnions on a first lever pivoting in bearing surfaces of a second lever. An L-shaped actuating arm that extends from the second lever is tripped back and forth by a shift disc engaged by a pair of tabs of a turret coupling assembly.

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